Why do Cell’s Divide?

Calculating Surface Area to Volume Ratio (SA:V)

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| Cube Side Length | Surface Area | Volume | Surface Area to Volume Ratio |
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Modeling Surface Area to Volume Ratio (SA:V)

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| Cube | Initial observation | Final Observation | SA:V Ratio |
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Notes:

1. As \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ increase, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ increases faster than the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ have a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ demand and \_\_\_\_\_\_\_\_\_\_\_\_\_ supply, and demand \_\_\_\_\_\_\_\_\_\_\_\_\_\_ as a cell grows.
3. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ surface area to volume ratio results in \_\_\_\_\_\_\_\_\_\_\_\_\_\_ supply.
4. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ surface area to volume ratio results in \_\_\_\_\_\_\_\_\_\_\_\_\_\_ supply.

Why do cells divide?

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